

## DICOM Change Proposal

STATUS	Letter Ballot
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Change Number	CP-2548
Log Summary: Clarification on Root TIDs - especially TID 3202, TID 3213	
Name of Standard	
PS3.16	

Rationale for Change:

1) PS3.16, section “Quantitative Arterial Analysis Report SR IOD Templates“ has an introducing [Figure A-3](#). Top of the include tree is **TID 3202 Quantitative Ventricular Analysis Report**.

No other TID does include TID 3202. No IOD in PS3.3 uses TID 3202.

TID 3202 has a report headline ([122292, DCM, "Quantitative Ventriculography Report"](#)) in its Row 1.

This looks very similar to other Root TID reports like TID 3250 IVUS Report or TID 3500 Hemodynamics Report, TID 3900 CT/MR Cardiovascular Analysis Report, etc.

But, TID 3202 has Root = No

2) Same condition is on section “Quantitative Arterial Analysis Report SR IOD Templates”, [Figure A-4](#).

Top of the include tree is **TID 3213 Quantitative Arterial Analysis**

TID 3213 has a report headline ([122291, DCM, "Quantitative Arteriography Report"](#)) in its Row 1.

No other TID does include TID 3213. No IOD in PS3.3 uses TID 3213.

But TID 3213 is Root = No

→ The submitter has the impression that TID 3202 and TID 3213 were intended to be a Root TID.

3) The wording of the TID names is inconsistent. Some have a word “Root” in their title to identify them as Root TIDs. Other TIDs have Root=Yes, but they do not have the word “Root” in their title.

TIDs 4000, 4100, 4120 have “Document” in their title – while Row 1 has a Concept Name using “Report”. This should be handled consistently.

TID 12000 General Ultrasound Report

TID 1500 Measurement Report

TID 2000 Basic Diagnostic Imaging Report

TID 3250 IVUS Report

TID 3500 Hemodynamics Report

TID 3800 Cardiac Catheterization Report **Root**

TID 3900 CT/MR Cardiovascular Analysis Report

TID 4000 Mammography CAD Document **Root**

TID 4100 Chest CAD Document **Root**

TID 4120 Colon CAD Document **Root**

TID 4200 Breast Imaging Report

TID 4300 Prostate Multiparametric MR Imaging Report

TID 5000 OB-GYN Ultrasound Procedure Report

TID 5100 Vascular Ultrasound Report

TID 5200 Echocardiography Procedure Report

TID 5220 Pediatric, Fetal and Congenital Cardiac Ultrasound Reports

TID 5300 Simplified Echo Procedure Report

TID 5320 Structural Heart Measurement Report

4) Some TIDs (for instance TIDs 3800, 4100, 4102, 5200, 5220, 10030 and 10040) have in their Row 1 the “Value Set Constraint” = “Root node” (resp. “Root Node”).

Other TIDs (for instance TIDs 5100, 5300, 5320) do not have Row 1 with that “Value Set Constraint”.

Only criteria for a TID to be a Root Node shall be “Root: Yes”.

The “Value Set Constraint” = “Root node” shall be deleted.

*Submitter to Editor: This shall be done editorial, for all TIDs where it applies.*

Change Wording:

## Modify PS3.16, TID 3202 Quantitative Ventricular Analysis Report

### 5 TID 3202 Quantitative Ventricular Analysis Report

The Quantitative Ventricular Analysis Report Template provides a CONTAINER with a structure for reporting the result of the ventricular analysis.

Type: Extensible

Order: Significant

10 Root: **No Yes**

**Table TID 3202. Quantitative Ventricular Analysis Report**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (122292, DCM, "Quantitative Ventriculography Report")	1	M		
[...]								

## Modify PS3.16, TID 3213 Quantitative Arterial Analysis

### 15 TID 3213 Quantitative Arterial Analysis

The Quantitative Arterial Analysis Template consists of a CONTAINER with a structure for reporting the result of the quantitative arterial analysis process.

Type: Extensible

Order: Significant

20 Root: **No Yes**

**Table TID 3213. Quantitative Arterial Analysis**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (122291, DCM, "Quantitative Arteriography Report")	1	M		
[...]								

## Modify PS3.16, rename TID 3800

### 25 TID 3800 Cardiac Catheterization Report-Root

The Cardiac Catheterization Report provides the overall clinical results of the catheterization procedure and interventions. In many cases, more detailed information is optionally available in other reports (Hemodynamic Measurements, Procedure Log, etc.). That information is collected and summarized here (and referenced when available).

30 When a Discharge Summary section (Row 12) is included, this report Template covers the full set of information required for submission to the ACC NCDR™ (version 2.0) registry.

Note

1. The information required for such a submission must sometimes be reformatted from a single concept in these Templates to two data elements for the registry, or vice versa.
2. This Template is expected to be used with the Basic Text SR or Enhanced SR IOD.3. This Cardiac Catheterization Report Template is a baseline Template within these SOP Classes that may be replaced; it is therefore in no sense binding for exchange of this type of report. It is solely an example of a possible encoding of the Cardiac Catheterization Report.

40 Type: Extensible  
Order: Significant  
Root: Yes

**Table TID 3800. Cardiac Catheterization Report Root**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (18745-0, LN, "Cardiac Catheterization Report")	1	M		Root-node
[...]								

45 **Modify PS3.16, rename TID 4000, (this implicitly same updates its references in TID 4000 (Row 3 description), TID 4015, TID 4016)**

### **TID 4000 Mammography CAD Report Document Root**

[...]

**Table TID 4000. Mammography CAD Report Document Root**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (111036, DCM, "Mammography CAD Report")	1	M		Root-node
[...]								

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Row 3	The "Image Library" section of the Content Tree (TID 4000 "Mammography CAD Report Document Root", Row 3) shall include all Image SOP Instances from the Current Requested Procedure Evidence Sequence (0040,A375) Attribute of the SR Document General Module. If a portion of another instance of a Mammography CAD SR IOD is duplicated in the "Overall Impression/ Recommendation" section of the Content Tree, the "Image Library" shall also include all Image Library Entries referenced from the duplicated portions of the Mammography CAD SR.
[...]	

### **TID 4015 CAD Detections Performed**

This Template gathers two lists of detection algorithms attempted, grouped by success/failure status. Algorithms not attempted are not mentioned in this sub-tree of the Document Root (e.g., TID 4000 "Mammography CAD Report Document Root"). [...]

### **TID 4016 CAD Analyses Performed**

This Template gathers two lists of analysis algorithms attempted, grouped by success/failure status. Algorithms not attempted are not mentioned in this sub-tree of the Document Root (e.g., TID 4000 "Mammography CAD Report Document Root"). [...]

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**Modify PS3.16, rename TID 4100, this updates its references in TID 4100, TID 4101, CID 6138**

### **TID 4100 Chest CAD Report Document Root**

[...]

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (112000, DCM, "Chest CAD Report")	1	M		Root-node

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#### Table TID 4100. Chest CAD Report Document Root

[...]

Row 3	<p>The "Image Library" section of the Content Tree (TID 4100 "Chest CAD <u>Report Document Root</u>", Row 3) may include all Image SOP Instances from the Current Requested Procedure Evidence Sequence (0040,A375) Attribute of the SR Document General Module. If a portion of another instance of a Chest CAD SR IOD is duplicated in the "Chest CAD Findings Summary" section of the Content Tree, the "Image Library" may also include all Image Library Entries referenced from the duplicated portions of the Chest CAD SR.</p> <p>The Image Library is intended to be used in cases where the acquisition context Content Items differ from image to image, such as different views and/or laterality in projection X-Ray.</p>
Rows 7, 9	<p>The "Detections Performed" and "Analyses Performed" sections of the Content Tree (TID 4100 "Chest CAD <u>Report Document Root</u>", Rows 7 and 9) together shall reference all Image SOP Instances included in the Current Requested Procedure Evidence Sequence (0040,A375) Attribute of the SR Document General Module.</p>

[...]

#### TID 4101 Chest CAD Findings Summary

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The contents of this Template describe the findings and aggregate features that the chest CAD device detected for the chest evidence presented. This Template forms the chest CAD results sub-tree of the Chest CAD Document Root (TID 4100 "Chest CAD Report Document Root"). [...]

#### CID 6138 Chest Non-lesion Object Type

[...]

##### Note

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The use of (111176, DCM, "Unspecified") was previously included in this Context Group but was removed since it does not make sense to have Chest CAD detections of an unknown type (was using TID 4015 "CAD Detections Performed" invoked by TID 4100 "Chest CAD Report Document Root", TID 4102 "Chest CAD Composite Feature" and TID 4104 "Chest CAD Single Image Finding" of an unknown type).

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**Modify PS3.16, rename TID 4120, this updates its references in 4120, 4121**

#### TID 4120 Colon CAD Report Document Root

[...]

#### Table TID 4120. Colon CAD Document Root

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	EV (112220, DCM, "Colon CAD Report")	1	M		Root-node

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[...]

Row 5	<p>The "Detections Performed" and "Analyses Performed" sections of the Content Tree (TID 4120 "Colon CAD <u>Report Document Root</u>", Rows 6 and 8) together shall reference all Image SOP Instances included in the Current Requested Procedure Evidence Sequence (0040,A375) Attribute of the SR Document General Module.</p>
Row 7	

**Modify PS3.16, all TIDs which have Row 1 with “Value Set Constraint” = “Root node” (resp. “Root Node”), drop the Value Set Constraint.**

**This currently applies to TIDs: 1500, 2000, 2005, 2006, 2010, 2020, 2100, 3001, 3250, 3300, 3500, 3700, 3750, 3800, 3900, 4000, 4100, 4120, 4200, 4300, 5000, 5200, 5220, 7000, 8101, 10001, 10011, 10021, 10030 (“Root Node”), 10040 (“Root Node”), 12000.**

	NL	Rel with Parent	VT	Concept Name	VM	Req Type	Condition	Value Set Constraint
1			CONTAINER	...(different)...	1	M		Root node